PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: SOEI Patent and Law Firm Attn. HASEGAWA, Yoshiki Okura-Honkan, 6-12 Ginza 2-chome, Chou-ku JP - Tokoy 104-0061 JAPAN NOV 15	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 11/11/1999
Applicant's or agent's file reference 2712.AKT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/IB 99/01140	International filing date (day/month/year) 20/05/1999
APPLIED KOMATSU TECHNOLOGY, INC.	
The applicant is hereby notified that the International Searce Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clair When? The time limit for filing such amendments is norm International Search Report; however, for more december of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the account of the search Report; however, for more detailed instructions, see the notes on the search Report; however, for more detailed instructions, see the notes on the search Report; however, for more detailed instructions, see the notes on the search Report Re	ns of the International Application (see Rule 46): ally 2 months from the date of transmittal of the etails, see the notes on the accompanying sheet.
	ch Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addit the protest together with the decision thereon has be applicant's request to forward the texts of both the pr	ional fee(s) under Rule 40.2, the applicant is notified that: en transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the ag	pplicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following Shortly after 18 months from the priority date, the international If the applicant wishes to avoid or postpone publication, a noti priority claim, must reach the International Bureau as provide completion of the technical preparations for international publi Within 19 months from the priority date, a demand for internati wishes to postpone the entry into the national phase until 30 r Within 20 months from the priority date, the applicant must per before all designated Offices which have not been elected in	application will be published by the International Bureau. Ice of withdrawal of the international application, or of the d in Rules 90bis.1 and 90bis.3, respectively, before the cation. In all preliminary examination must be filed if the applicant months from the priority date (in some Offices even later). If orm the prescribed acts for entry into the national phase the demand or in a later election within 19 months from the
priority date or could not be elected because they are not bou	ind by Chapter II.

Marjory Sastropawiro

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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended,

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51):
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 reptaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2712.AKT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/IB 99/01140	20/05/1999	20/05/1998		
Applicant Applicant	20/03/1777	20/05/1990		
APPLIED KOMATSU TECHNOLOG	SY, INC.			
This International Search Report has been according to Article 18. A copy is being to This International Search Report consists		uthority and is transmitted to the applicant		
	y a copy of each prior art document cited in th	is report.		
1. Basis of the report				
 a. With regard to the language, the language in which it was filed, ut 	e international search was carried out on the b nless otherwise indicated under this item.	asis of the international application in the		
Authority (Rule 23.1(b)).	was carried out on the basis of a translation o			
 With regard to any nucleotide a was carried out on the basis of t 	nd/or amino acid sequence disclosed in the he sequence listing:	international application, the international search		
_	ional application in written form.			
filed together with the in	ternational application in computer readable fo	orm.		
furnished subsequently	to this Authority in written form.			
furnished subsequently	to this Authority in computer readble form.			
the statement that the si international application	ubsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the		
the statement that the in furnished	formation recorded in computer readable form	n is identical to the written sequence listing has been		
2. Certain claims were fo	und unsearchable (See Box I).	•		
3. Unity of invention is la	cking (see Box II).	,		
4. With regard to the title,				
The text is approved as	submitted by the applicant.			
the text has been estable	ished by this Authority to read as follows:			
	•			
5. With regard to the abstract,				
the text has been estab	submitted by the applicant. lished, according to Rule 38.2(b), by this Auth he date of mailing of this international search	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.		
6. The figure of the drawlings to be pu	blished with the abstract is Figure No.	2		
X as suggested by the ap	plicant.	None of the figures.		
because the applicant f	ailed to suggest a figure.	·		
hoodyge this favore has	er characterizes the invention.			

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB 99/01140

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H01L21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92 17621 A (CONNER PERIPHERALS INC) 15 October 1992 (1992-10-15) page 21, line 1 -page 27, line 20; claims	13,15
Α	1-3; figures 1,2 page 13, line 8 -page 14, line 8	1,4-6, 19,32, 35,52, 61,69
Α.	page 50, line 1 -page 55, line 2; figures 15-21	
A	WO 92 21144 A (MATERIALS RESEARCH CORP) 26 November 1992 (1992-11-26)	1,2,5, 13,19, 32,48, 52,61, 64,69
	page 17, line 4 -page 24, line 7; claims 1,3,7; figures 1-4 	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but	ments, such combination being obvious to a person skilled in the art.
later than the priority date claimed	"&" document member of the same patent family
Date of the actual completion of the international search	Date of malling of the international search report
1 November 1999	11/11/1999
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Visentin, A

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 99/01140

C.(Continu	RION) DOCUMENTS CONSIDERED TO BE RELEVANT	 Balayant to claim No
Category °	Citation of document, with indication, where appropriate, of the relevant passages	 Relevant to claim No.
A	US 5 609 689 A (KATO SUSUMU ET AL) 11 March 1997 (1997-03-11) the whole document	1,2,7, 11,13, 19,32, 35,36, 48,49, 61,65, 69,70
A	WO 94 14185 A (MATERIALS RESEARCH CORP) 23 June 1994 (1994-06-23)	1,2,7, 11,13, 19,32, 35,36, 48,49, 52,61, 69,70
	page 15, line 3 -page 19, line 11; claims 1,2; figures 1-3	
A	EP 0 608 620 A (APPLIED MATERIALS INC) 3 August 1994 (1994-08-03)	
Α	US 5 474 410 A (OZAWA MASAHITO ET AL) 12 December 1995 (1995-12-12)	
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INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/IB 99/01140

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AU 1270092 A 30-12-199 AU 2155992 A 30-12-199 CA 2102197 A 18-11-199 CA 2102795 A 18-11-199 EP 0584077 A 02-03-199 EP 0584278 A 02-03-199 JP 2664288 B 15-10-199 JP 6507970 T 08-09-199 JP 2729106 B 18-03-199 JP 6507524 T 25-08-199 WO 9221147 A 26-11-199 US 5380682 A 10-01-199 US 5352248 A 04-10-199)4)8
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